FIG 1a

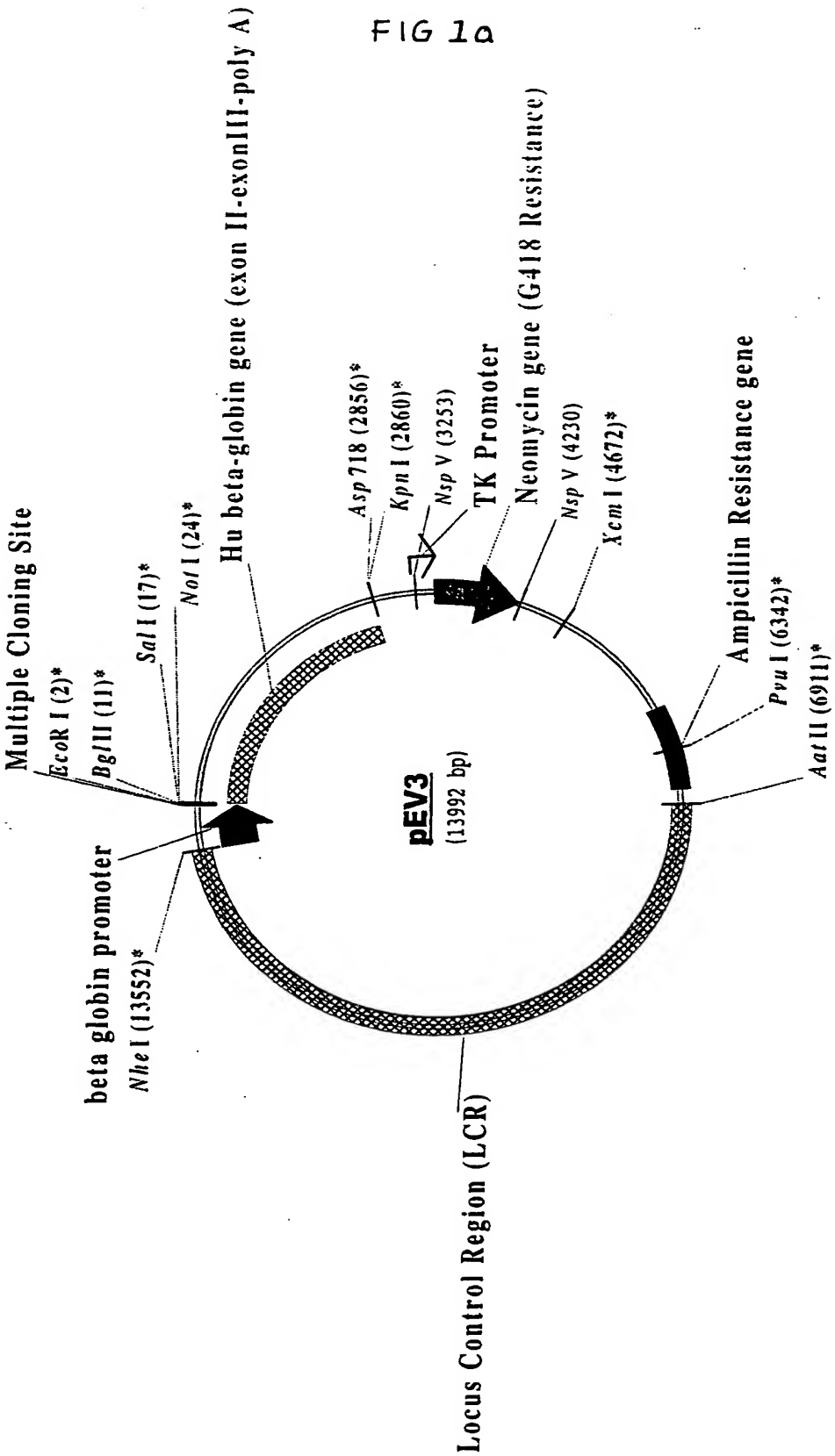
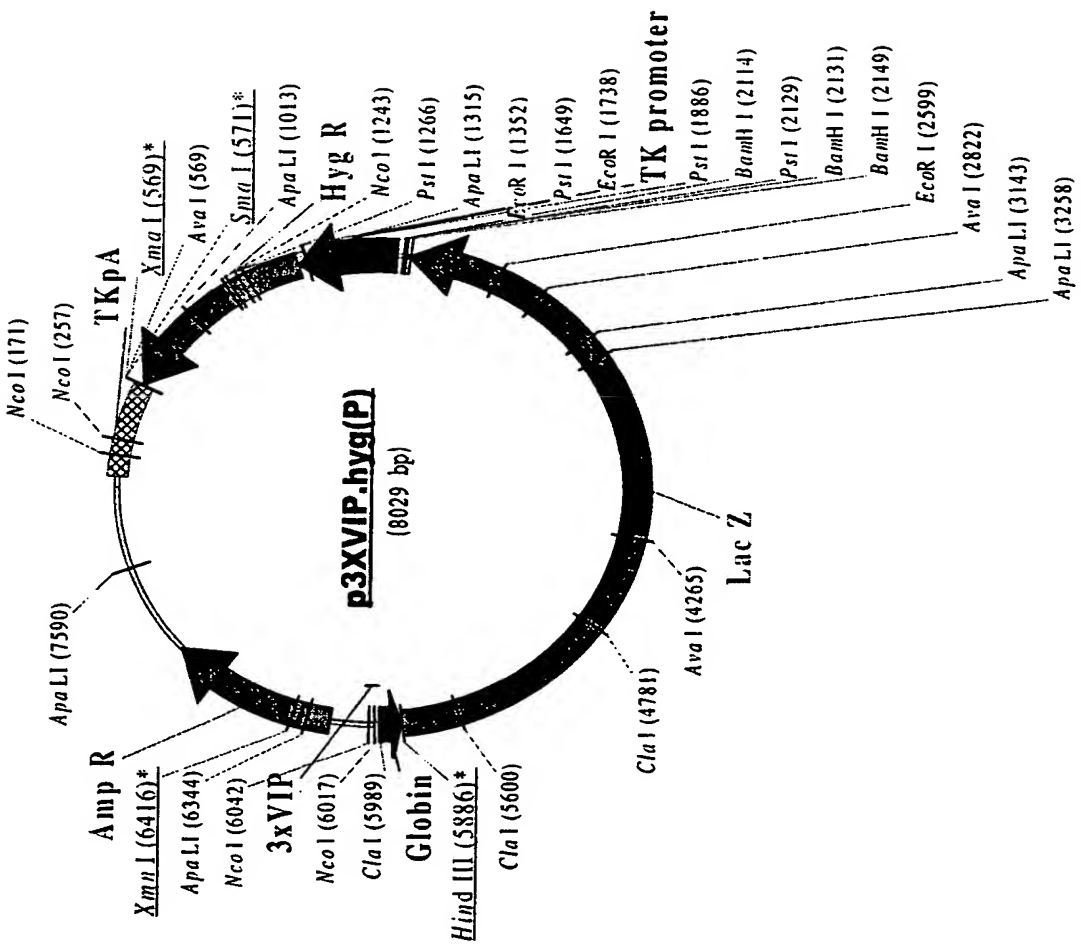

Multiple Cloning Site
EcoR I (2)*
BglII (11)*
Sal I (17)*
Not I (24)*
Hu beta-globin gene (exon II-exonIII-poly A)
Asp 718 (2856)*
Kpn I (2860)*
Nsp V (3253)
TK Promoter
Neomycin gene (G418 Resistance)
Nsp V (4230)
Xcm I (4672)*
Ampicillin Resistance gene
Pvu I (6342)*
AatII (6911)*
pEV3
(13992 bp)
beta globin promoter
Nhe I (13552)*
Locus Control Region (LCR)

FIG 1b


p3XVIP.hyg(P)
(8029 bp)
Amp R
Xmn I (6416)*
Apa LI (6344)
Nco I (6042)
3xVIP
Nco I (6017)
Cla I (5989)
Globin
Hind III (5886)*
Cla I (5600)
Cla I (4781)
Ava I (4265)
Lac Z
Apa LI (7590)
Nco I (171)
Nco I (257)
TKpA
Xma I (569)*
Ava I (569)
Sma I (571)*
Apa LI (1013)
Hyg R
Nco I (1243)
Pst I (1266)
Apa LI (1315)
EcoR I (1352)
Pst I (1649)
EcoR I (1738)
TK promoter
Pst I (1886)
BamH I (2114)
Pst I (2129)
BamH I (2131)
BamH I (2149)
EcoR I (2599)
Ava I (2822)
Apa LI (3143)
Apa LI (3258)

10/009231

FIG 2

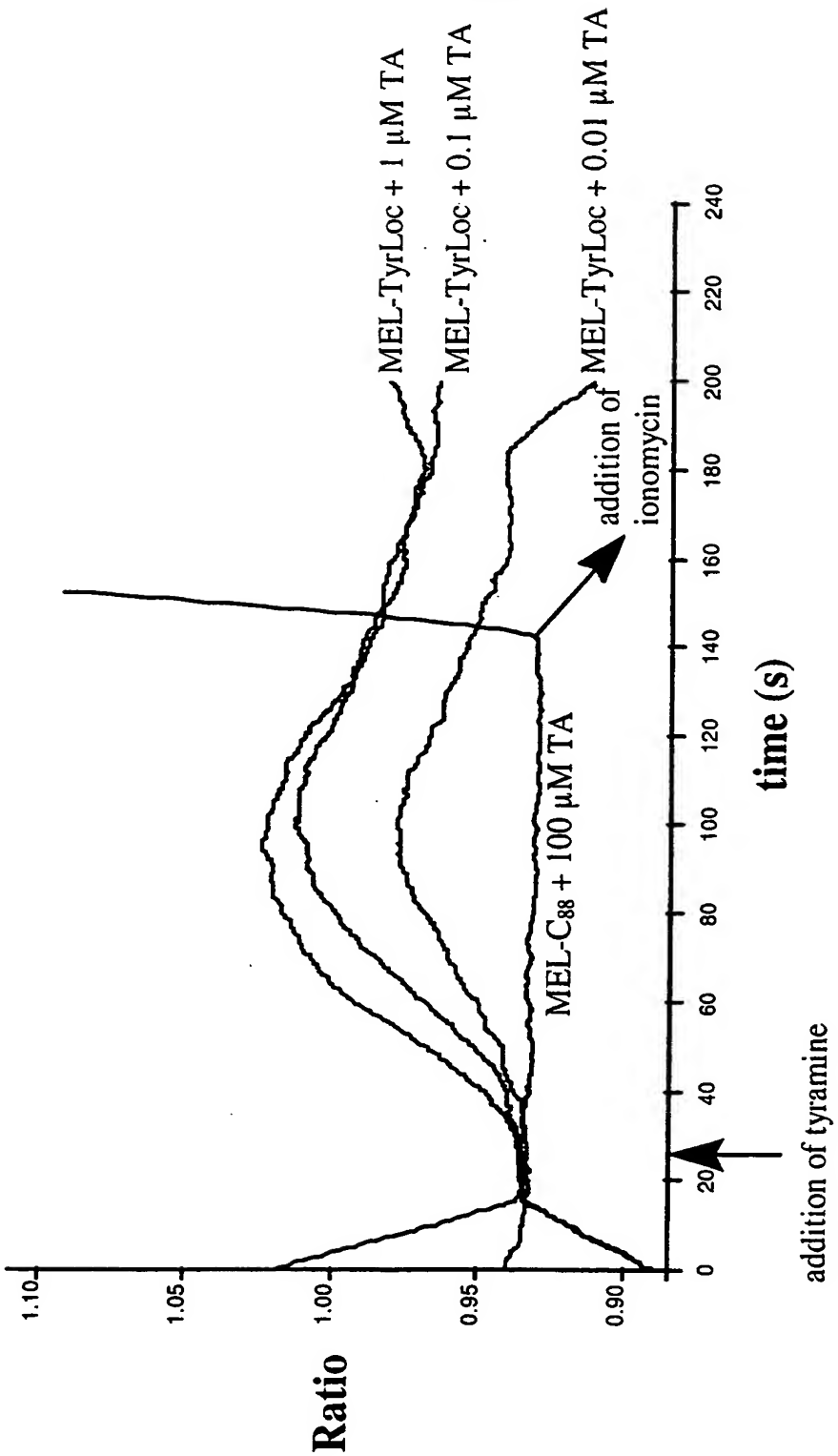


FIG 3

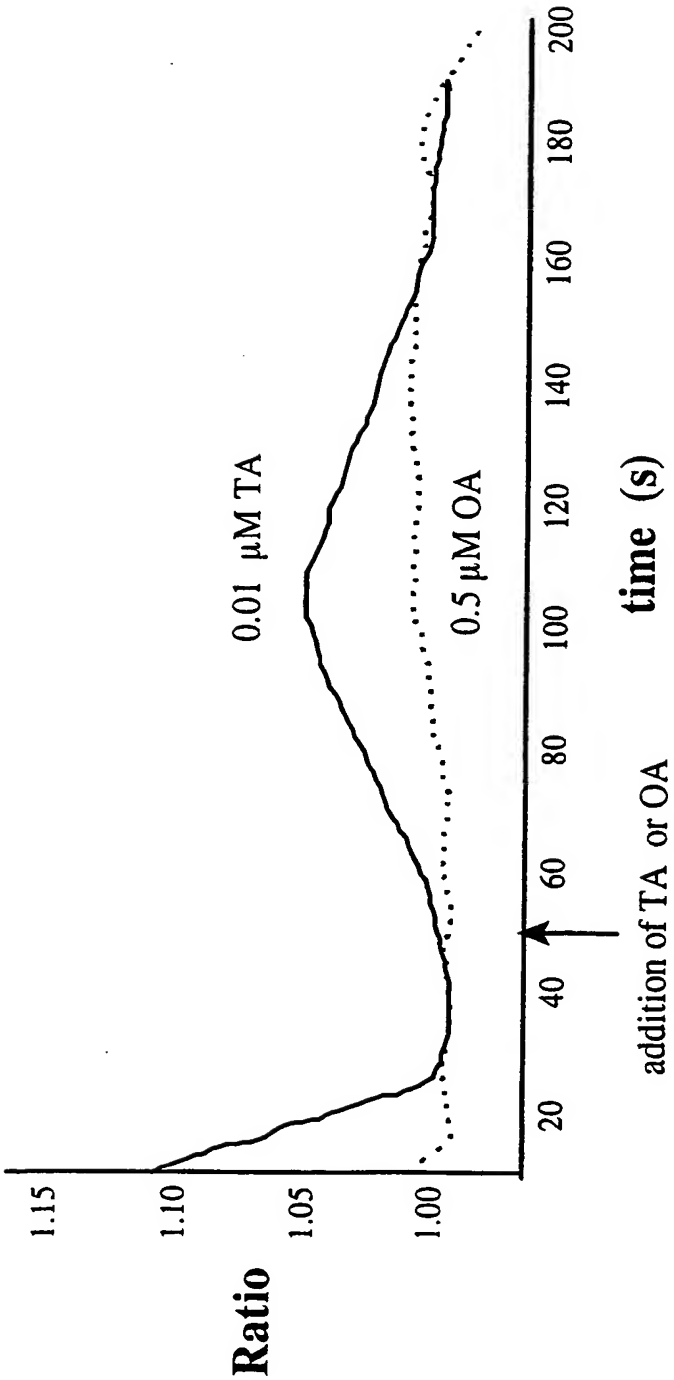

Ratio
1.15
1.10
1.05
1.00
0.01 µM TA
0.5 µM OA
addition of TA or OA
time (s)
20
40
60
80
100
120
140
160
180
200

FIG 4

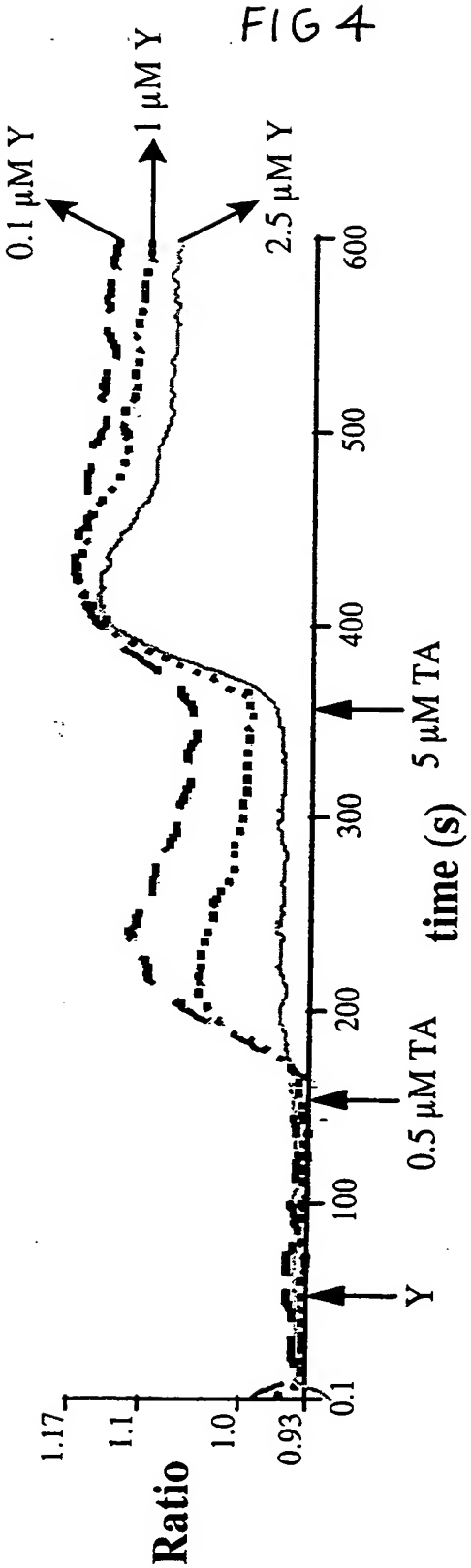

0.1 µM Y
1 µM Y
2.5 µM Y
Y
0.5 µM TA
5 µM TA
time (s)
Ratio
1.17
1.1
1.0
0.93
0.1
100
200
300
400
500
600

FIG 5

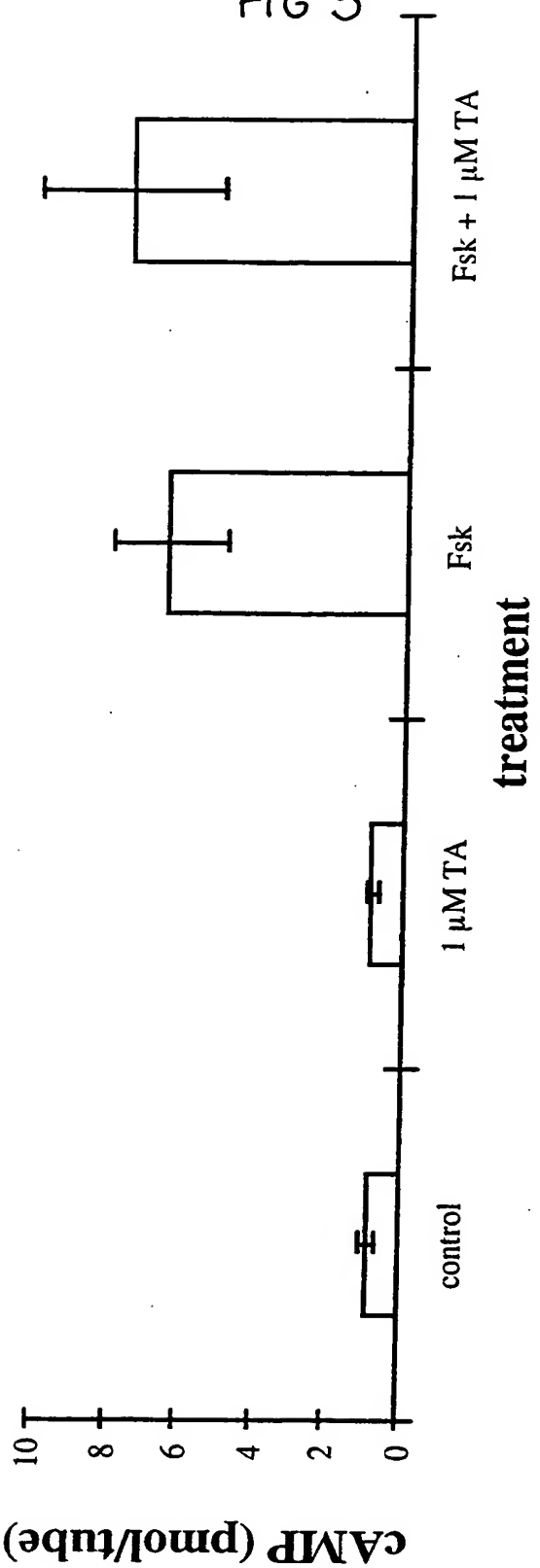
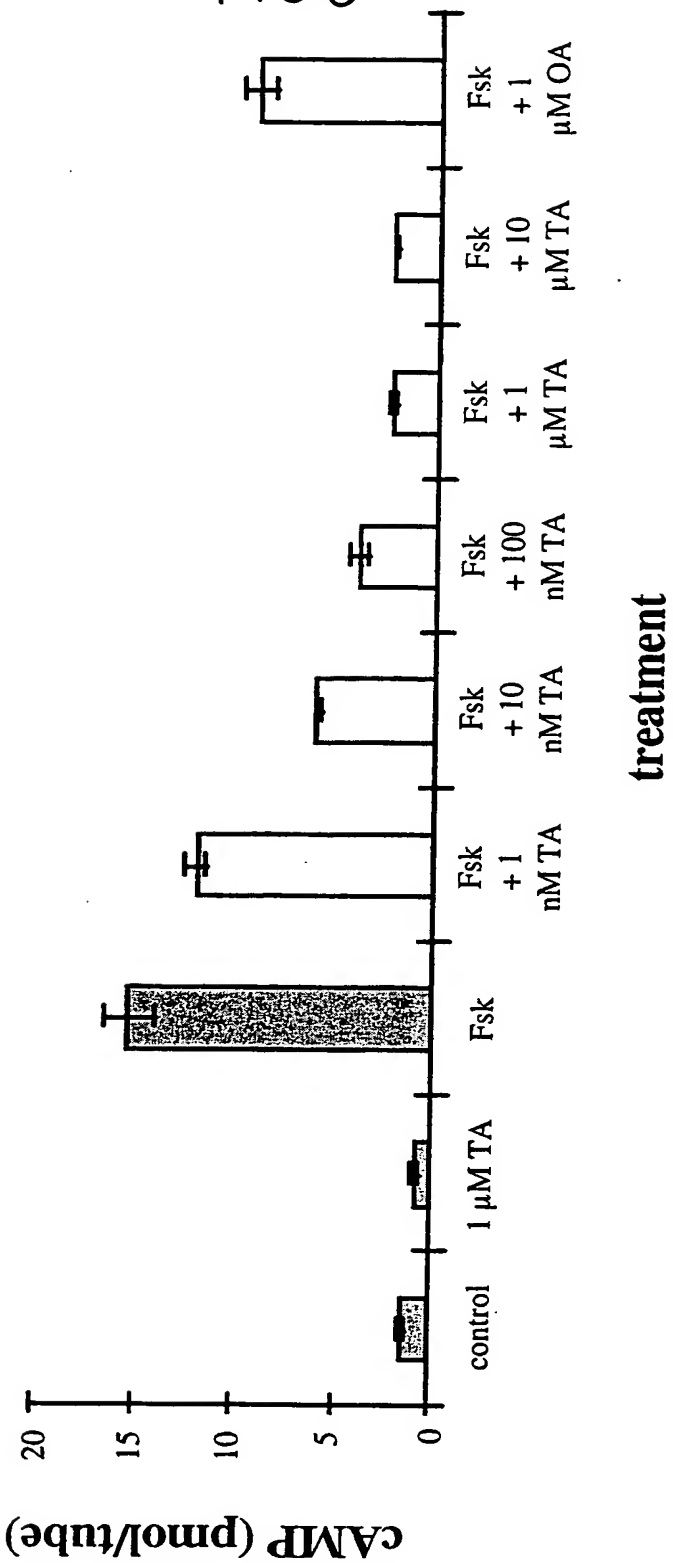

cAMP (pmol/tube)
0
2
4
6
8
10
control
1 μM TA
Fsk
Fsk + 1 μM TA
treatment

FIG 6



SUBSTITUTE SHEET (RULE 26)

FIG 7

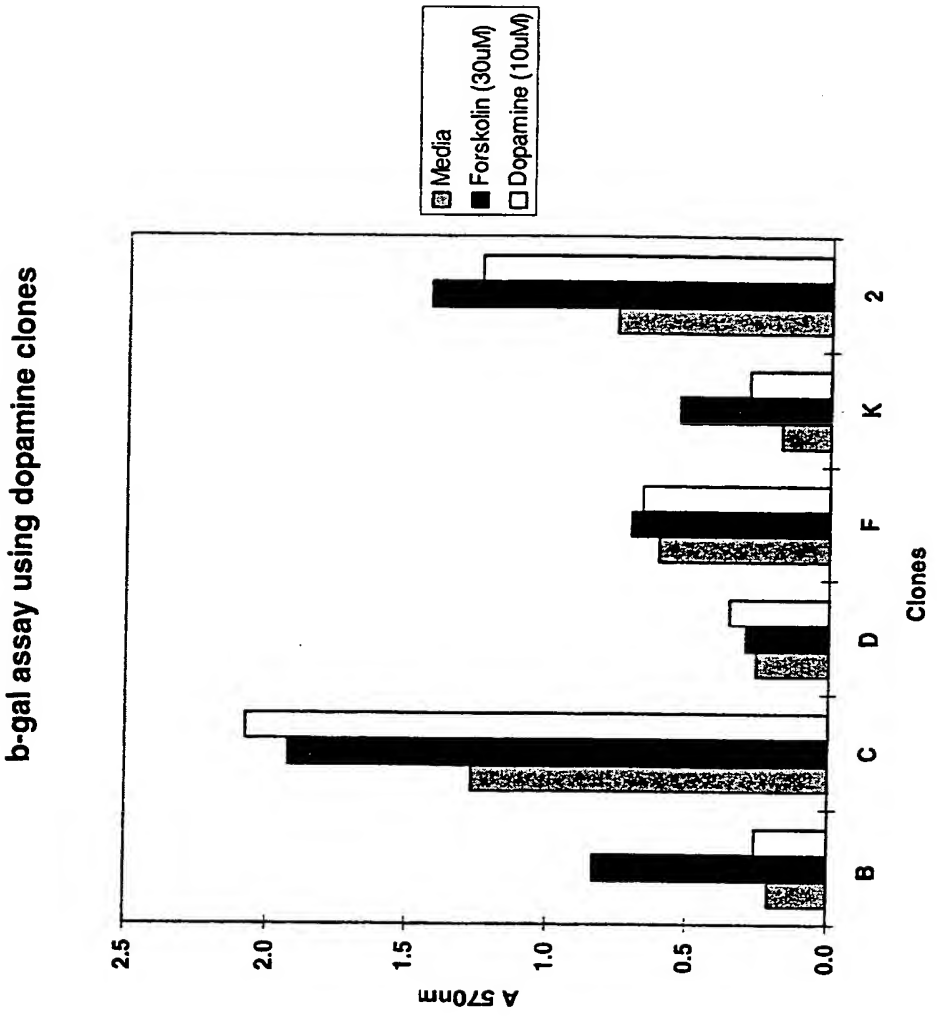

b-gal assay using dopamine clones
Media
Forskolin (30uM)
Dopamine (10uM)
A 570nm
2.5
2.0
1.5
1.0
0.5
0.0
B
C
D
F
K
2
Clones

FIG 8a

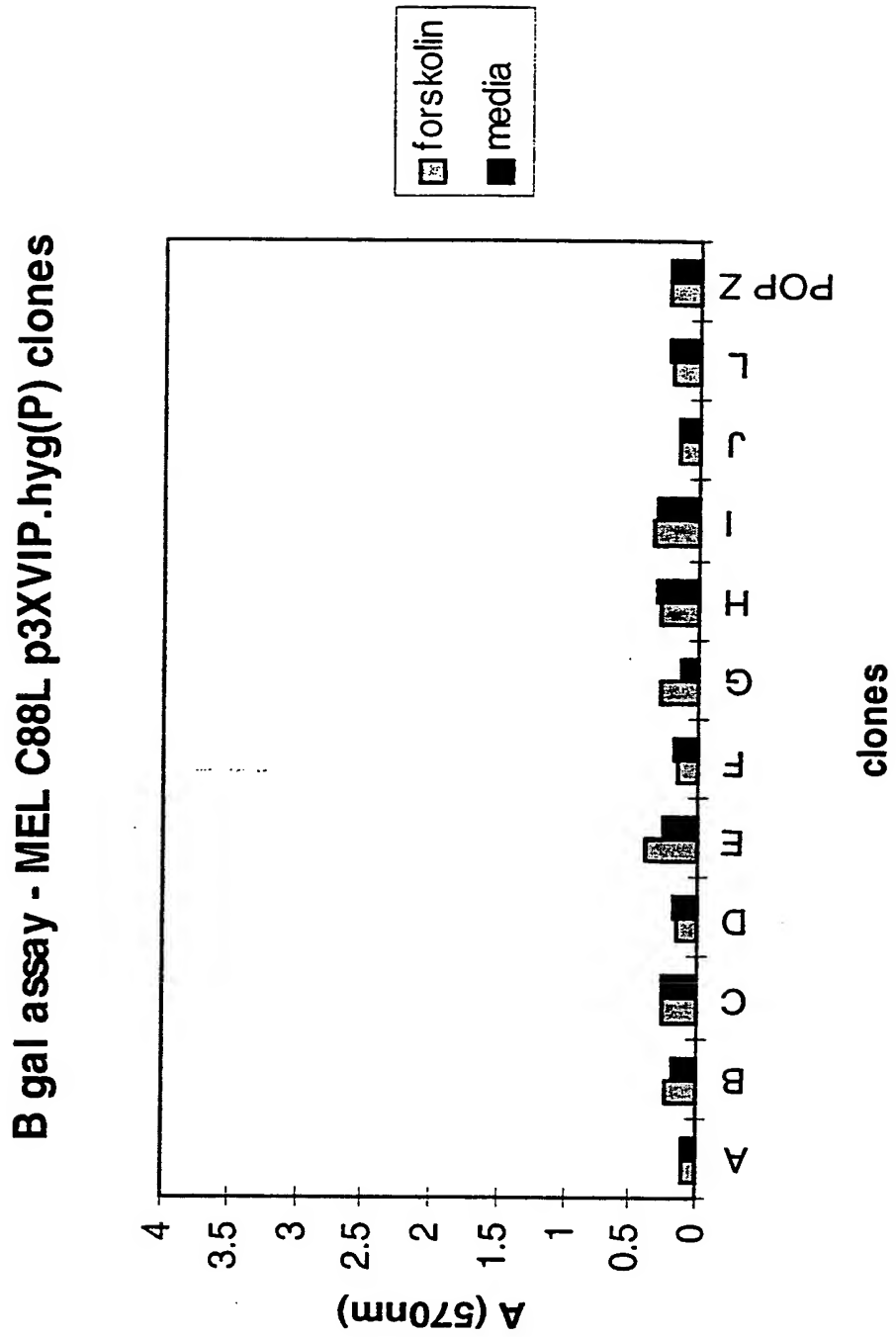
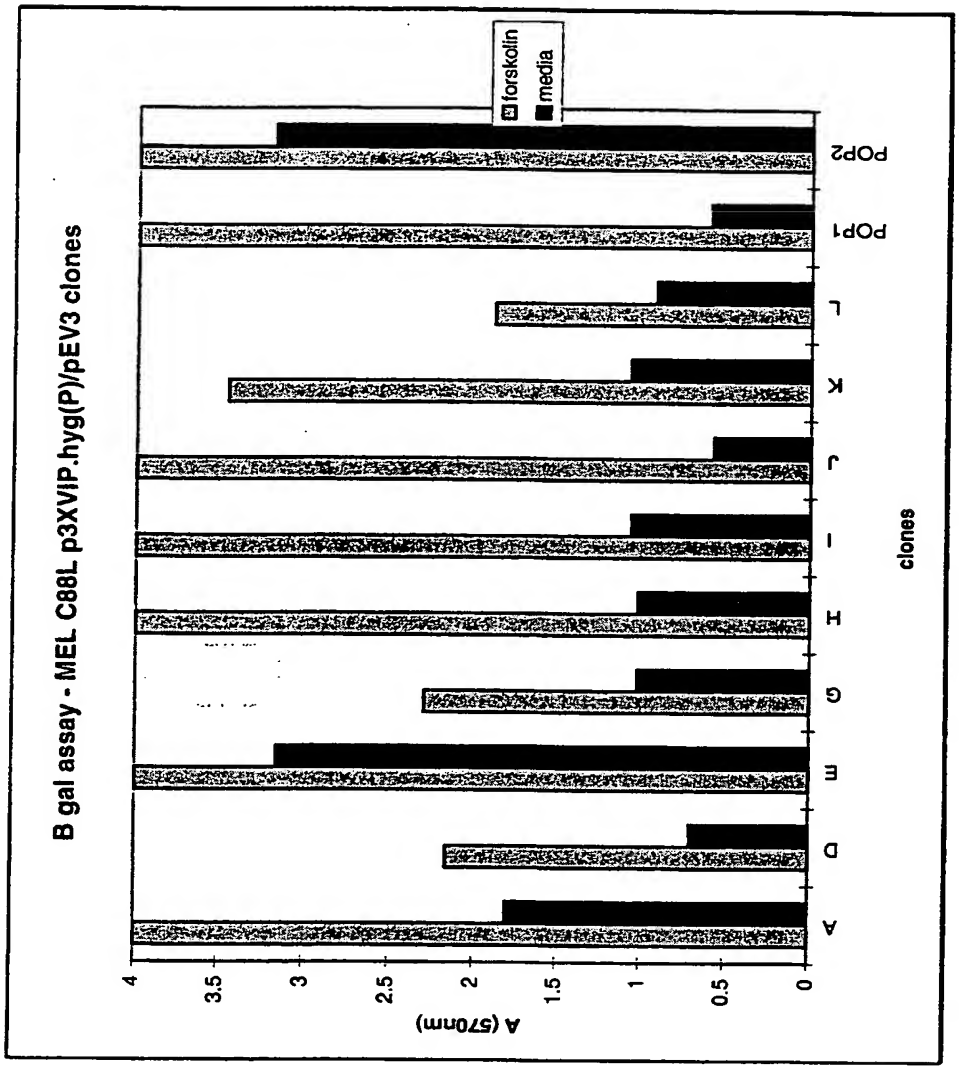

B gal assay - MEL C88L p3XVIP.hyg(P) clones
forskolin
media
A (570nm)
0
0.5
1
1.5
2
2.5
3
3.5
4
A
B
C
D
E
F
G
H
I
J
L
POP Z
clones

FIG 8b


B gal assay - MEL C88L p3XVIP.hyg(P)/pEV3 clones
forskolin
media
A (570nm)
0
0.5
1
1.5
2
2.5
3
3.5
4
clones
A
D
M
G
H
I
J
K
L
POP1
POP2